

CLAIMS

What is claimed is:

1. A label stock consisting essentially of:
 - A. A cast face sheet layer having opposing first and second surfaces, the first surface of the cast face sheet layer adapted to carry printed information, the cast face sheet layer comprising a phenoxy, modified phenoxy, or polyester binder resin matrix;
 - B. A pressure-sensitive adhesive layer having opposing first and second surfaces, the first surface of the adhesive layer in intimate and binding contact with the second surface of the cast face sheet layer; and,
 - C. A release liner in contact with the second surface of the adhesive layer.
2. The label of Claim 1 wherein the phenoxy binder resin is a modified or linear copolymer made from bisphenol A and epichlorohydrin.
3. The label of Claim 1 wherein the phenoxy resin is crosslinked with an isocyanate or other hydroxyl functional crosslinker.
4. The label of Claim 1 in which the cast face sheet layer is between about 0.005 mm and about 0.2 mm in thickness.
5. The label of Claim 1 in which the pressure-sensitive adhesive is a permanent pressure-sensitive adhesive.

6. The label of Claim 1 in which the pressure-sensitive adhesive layer is between about 0.01 mm and about 0.075 mm in thickness.
7. The label of Claim 1 which is heat resistant for 5 minutes without discoloration up to a temperature of at least about 280°C.
8. The label of Claim 1 which is resistant to printed wiring board processing cleaners and solvents.
9. The label of Claim 1 which is tamper-evident such that the label, without the release liner, cannot be removed intact from a substrate upon which the second surface of the pressure-sensitive adhesive layer is in binding contact.
10. The label of Claim 1 in which the cast face sheet layer comprises at least one pigment or filler.
11. The label of Claim 10 in which the ratio of pigment or filler to resin ranges from about 5/100 to about 300/100 by weight.
12. The label of Claim 10 in which the pigment or filler is TiO_2 , $BaSO_4$, $CaCO_3$, silica, iron oxide, zinc oxide or clay.
13. An electrostatic dissipative label stock consisting essentially of:

A. A cast face sheet layer having opposing first and second surfaces, the first surface of the cast face sheet layer adapted to carry printed information, the cast face sheet layer comprising a phenoxy, modified phenoxy, or polyester binder resin matrix containing first electrically conductive particles;

B. A pressure-sensitive adhesive layer containing second electrically conductive particles having opposing first and second surfaces, the first surface of the adhesive layer in intimate and binding contact with the second surface of the cast face sheet layer; and

C. A release liner in contact with the second surface of the adhesive layer.

14. The label of Claim 13 wherein the phenoxy resin is a modified or linear copolymer made from bisphenol A and epichlorohydrin.

15. The label of Claim 13 wherein the phenoxy resin is crosslinked with an isocyanate or other hydroxyl functional crosslinker.

16. The label of Claim 13 in which the electrically conductive particles comprise at least about 10 weight percent of the combined weight of the binder resin and conductive particles.

17. The label of Claim 13 in which the first electrically conductive particles of the binder resin are inorganic oxide particles carrying an electrically conductive shell.

18. The label of Claim 13 in which the cast face sheet layer is between about 0.005 mm and about 0.2 mm in thickness.

19. The label of Claim 13 in which the pressure-sensitive adhesive is a permanent pressure-sensitive adhesive.
20. The label of Claim 13 in which the second electrically conductive particles of the pressure-sensitive adhesive are metal particles.
21. The label of Claim 13 in which the second electrically conductive particles of the pressure-sensitive adhesive are nickel.
22. The label of Claim 13 in which the second electrically conductive particles comprise less than about 9 weight percent of the combined weight of the particles and adhesive.
23. The label of Claim 13 in which the pressure-sensitive adhesive layer is between about 0.01 mm and about 0.075 mm in thickness.
24. The label of Claim 13 in which the release liner is electrostatic dissipative.
25. The label of Claim 13 which is heat resistant for 5 minutes without discoloration up to a temperature of at least about 280°C.
26. The label of Claim 13 which is resistant to printed wiring board processing cleaners and solvents.

27. The label of Claim 13 which is tamper-evident such that the label, without the release liner, cannot be removed intact from a substrate upon which the second surface of the pressure-sensitive adhesive layer is in binding contact.

28. The label of Claim 13 in which the cast face sheet layer comprises at least one pigment or filler.

29. The label of Claim 28 in which the ratio of pigment or filler to resin ranges from about 5/100 to about 300/100 by weight.

30. The label of Claim 28 in which the pigment or filler is TiO_2 , $BaSO_4$, or $CaCO_3$, silica, iron oxide, zinc oxide or clay.